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ACM Transactions on Programming Languages and Systems (TOPLAS) January 1985
Volume 7 Issue 1
   A specification technique, formally equivalent to finite-state machines, is offered as an alternative because it is inherently distributed and more comprehensible. When applied to modules whose complexity is dominated by control, the technique guides the analyst to an effective decomposition of complexity, encourages well-structured error handling, and offers an opportunity for parallel computation. When applied to distributed protocols, the technique provides a unique perspective and facil ...

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Trishul M. Chilimbi , Martin Hirzel
ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation May 2002
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   Prefetching data ahead of use has the potential to tolerate the growing processor-memory performance gap by overlapping long latency memory accesses with useful computation. While sophisticated prefetching techniques have been automated for limited domains, such as scientific codes that access dense arrays in loop nests, a similar level of success has eluded general-purpose programs, especially pointer-chasing codes written in languages such as C and C++. We address this problem by describing ...

3 Checking subsystem safety properties in compositional reachability   80%
analysis
Shing C. Cheung , Jeff Kramer
Proceedings of the 18th international conference on Software engineering May 1996
   The software architecture of a distributed program can be represented by an hierarchical composition of subsystems, with interacting processes at the leaves of the hierarchy. Compositional reachability analysis has been proposed as a promising automated method to derive the overall behavior of a distributed program in stages,

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